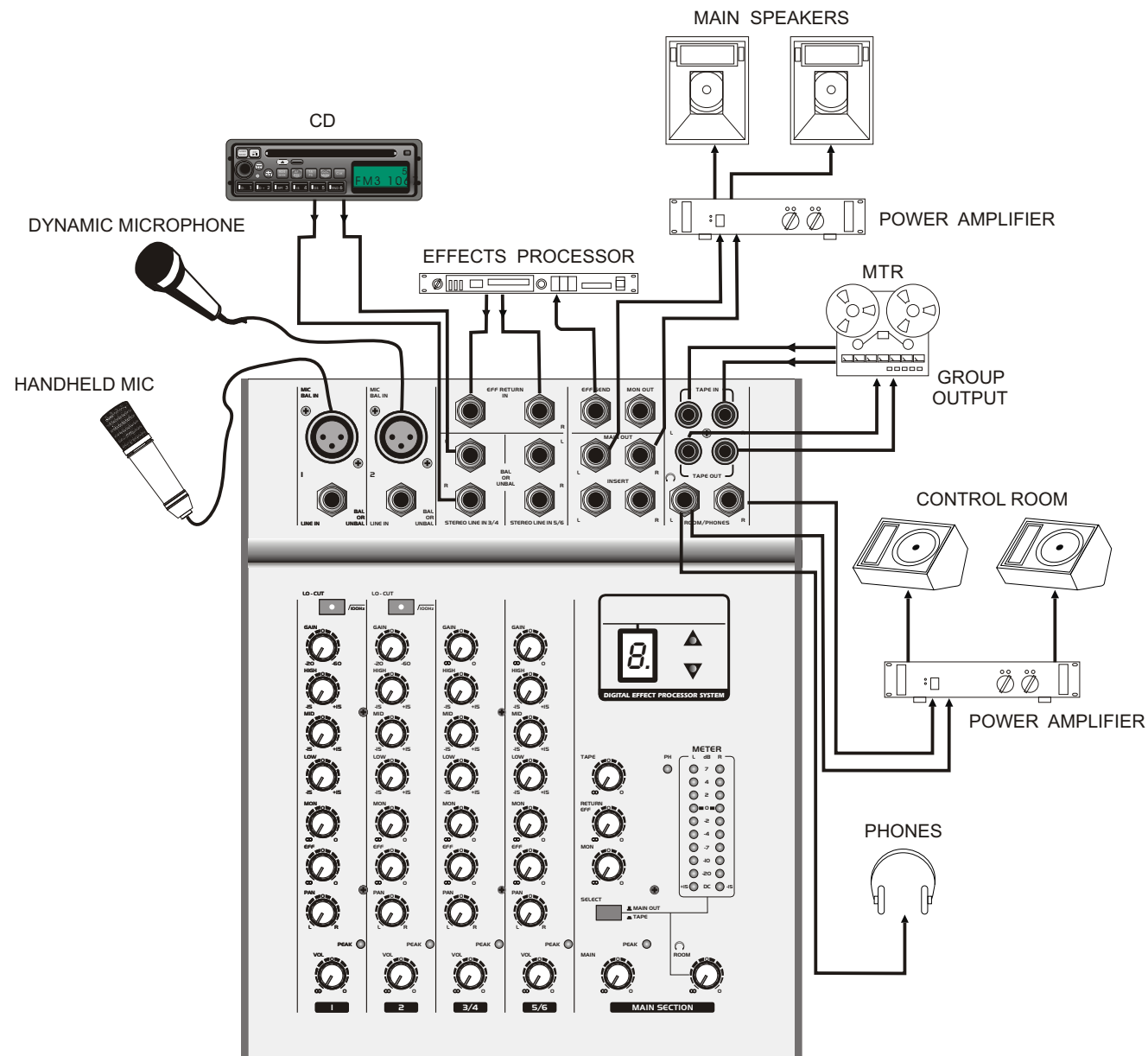


# USER'S MANUAL

**Professional mixing console**  
**LOW NOISE 6/8/10/12/16/18 CHANNEL(MIC-LINE)**



## 8. EXAMPLE SETUPS



## IMPORTANT SAFETY SYMBOLS



Use only with the cart, stand, tripod, bracket, or table specified by the manufacturer, or sold with the apparatus. When a cart is used, use caution when moving the cart/apparatus combination to avoid injury from tip-over.



The symbol is used to indicate that some hazardous live terminals are involved within this apparatus, even under the normal operating conditions, which may be sufficient to constitute the risk of electric shock or death.



The symbol is used in the service documentation to indicate that specific component shall be replaced only by the component specified in that documentation for safety reasons.



Protective grounding terminal



Alternating current/voltage



Hazardous live terminal

**ON:** Denotes the apparatus is turned on

**OFF:** Denotes the apparatus is turned off.

**WARNING:** Describes precautions that should be observed to prevent the danger of injury or death to the operator.

**CAUTION:** Describes precautions that should be observed to prevent danger of the apparatus.

## 1. IMPORTANT SAFETY INSTRUCTIONS

- Read these instructions.
- Keep these instructions.
- Heed all warning.
- Follow all instructions.

### • Water & Moisture

The apparatus should be protected from moisture and rain, can not used near water, for example: near bathtub, kitchen sink or a swimming pool, etc.

### • Heat

The apparatus should be located away from the heat source such as radiators, stoves or other appliances that produce heat.

### • Ventilation

Do not block areas of ventilation opening. Failure to do could result in fire. Always install accordance with the manufacturer's instructions.

### • Object and Liquid Entry

Objects do not fall into and liquids are not spilled into the inside of the apparatus for safety.

### • Power Cord and Plug

Protect the power cord from being walked on or pinched particularly at plugs, convenience receptacles, and the point where they exit from the apparatus.

Do not defeat the safety purpose of the polarized or grounding-type plug. A polarized plug has two blades with one wider than the other. A grounding type plug has two blades and a third grounding prong. The wide blade or the third prong is provided for your safety. If the provided plug does not fit into your outlet, refer

to electrician for replacement.

### • Power Supply

The apparatus should be connected to the power supply only of the type as marked on the apparatus or described in the manual. Failure to do could result in damage to the product and possibly the user.

Unplug this apparatus during lightning storms or when unused for long periods of time.

Where the MAINS plug or an appliance coupler is used as the disconnect device, the disconnect device shall remain readily operable.

### • Fuse

To prevent the risk of fire and damaging the unit, please use only of the recommended fuse type as described in the manual. Before replacing the fuse, make sure the unit turned off and disconnected from the AC outlet.

### • Electrical Connection

Improper electrical wiring may invalidate the product warranty.

### • Cleaning

Clean only with a dry cloth. Do not use any solvents such as benzol or alcohol.

### • Servicing

Do not implement any servicing other than those means described in the manual. Refer all servicing to qualified service personnel only.

- Only use accessories/attachments or parts recommended by the manufacturer.



## 1. MAIN FEATURES

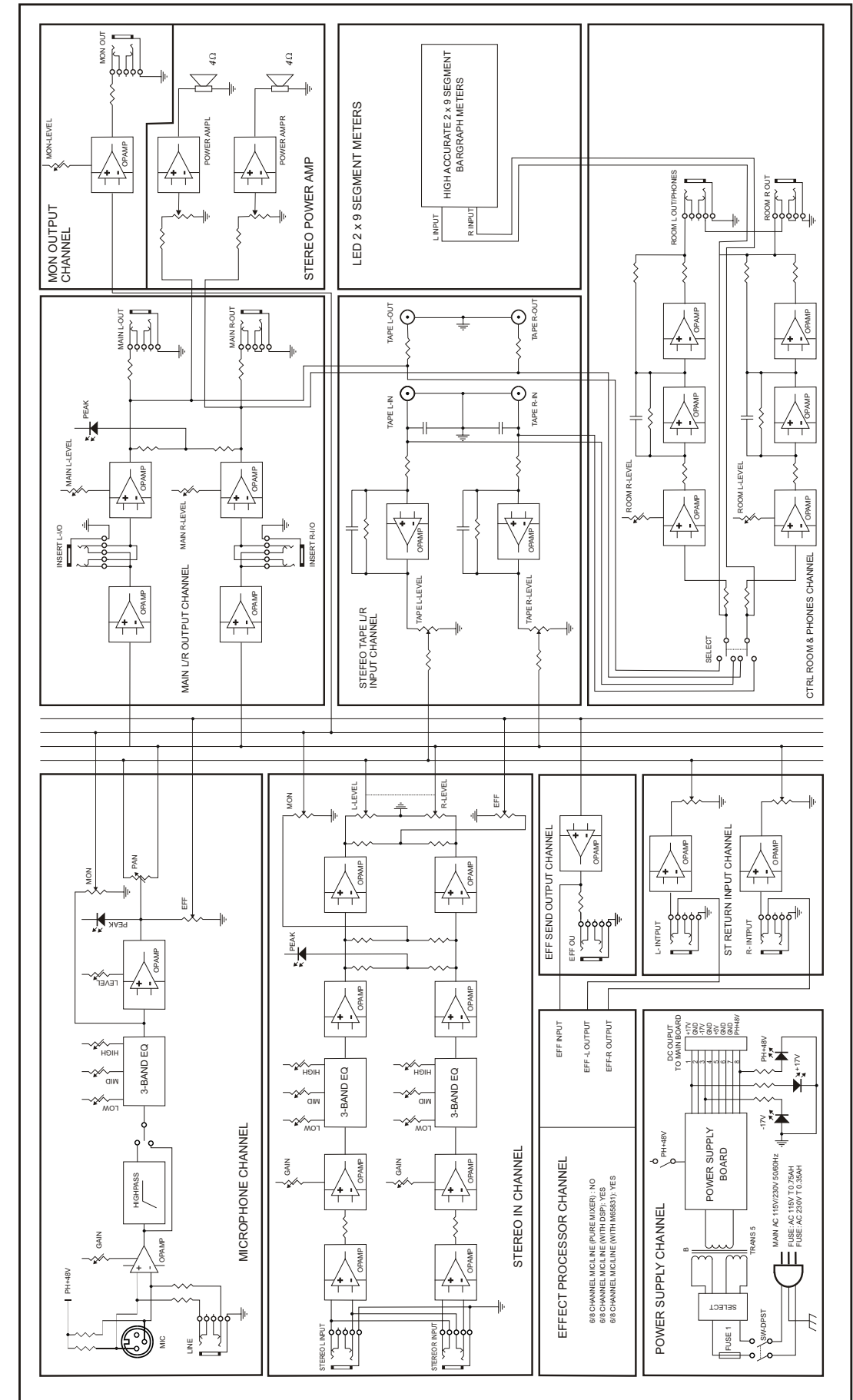
- 2/4/6/8/10 mono input channels with gold plated XLR, and balanced line inputs.
- Ultra-low noise discrete MIC preamps with +48V phantom power.
- Extremely high headroom offering more dynamic range.
- 2 stereo input channels with balanced TRS Jacks.
- 1 additional multi functional stereo line inputs.
- Balanced inputs for highest signal integrity.
- Ultra-musical 3-band EQ on all channels.
- Peak LEDs and switchable low-cut filter on all mono channels.
- 2 AUX sends per channel for external effects and monitoring.
- Separate MAIN MIX control room and headphone outputs.
- 2-track inputs assignable to main mix, control room/headphone output.
- High-accurate 9 segment bargraph meters.
- High-quality ALPHA sealed potentiometers.
- Rugged design power supply ensures superior signal integrity.
- State of the art 4580 ICs and high quality components ensure crystal-clear audio performance and excellent noise figures.
- Built-in 24 bit DSP:
 

(1)0-Hall1,	1-Hall2,	2-Room1,	3-Room2,	4-Room3,	5-Plate1,	6-Plate2,
7-Spring,	8-DLY 5ms,	9-DLY 10ms,	A-DLY 20ms,	B-DLY 30ms,	C-DLY 200ms,	D-DLY 300ms,
E-DLY 400ms,	F-DLY 500ms,					

(2)0-Hall1,	1-Hall2,	2-Room1,	3-Room2,	4-Room3,	5-Plate1,	6-Plate2,
7-Plate3,	8-Chorus,	9-Flange,	A-Delay1,	B-Delay2,	C-Chorus/Room1,	
D-Chorus/Room2,	E-Vocal Cancel,	F-Rotary Speaker				
- AC VOLTAGE SELECTOR-select between AC 115V/60Hz, 230V/50Hz.
- It has been safety Approval and conformity export standard requirements.
- Manufactured under the stringent ISO9000 Management system.
- High quality 45mm faders and sealed potentiometers.

## 7. MIXING CONSOLE BLOCK DIAGRAM



## 6. MAINS FUNCTIONS

FUNCTION TYPE	MIC IN		STEREO IN	MAIN OUT	EFFECT	POTENTIOMETERS		POWER SUOOLY		POWER AMP 2X50W (RMS) OUTPUT4Ω
	CH	PHANTOM	CH	CH	DSP	ROTARY	SLIDE	IN SIDE	OUT SIDE	
6 Channel Mic/Line (602A)	2	✓	4	2	×	✓	×	✓	×	×
6 Channel Mic/Line (602AD)	2	✓	4	2	✓	✓	×	✓	×	×
8 Channel Mic/Line (802A)	4	✓	4	2	×	✓	×	✓	×	×
8 Channel Mic/Line (802AD)	4	✓	4	2	✓	✓	×	✓	×	×
10 Channel Mic/Line (1002A)	6	✓	4	2	×	✓	×	✓	×	×
10 Channel Mic/Line (1002AD)	6	✓	4	2	✓	✓	×	✓	×	×
6 Channel Mic/Line (602AC)	2	✓	4	2	×	✓	×	✓	×	✓
6 Channel Mic/Line (602ADC)	2	✓	4	2	✓	✓	×	✓	×	✓
8 Channel Mic/Line (802AC)	4	✓	4	2	×	✓	×	✓	×	✓
8 Channel Mic/Line (802ADC)	4	✓	4	2	✓	✓	×	✓	×	✓
10 Channel Mic/Line (1002AC)	6	✓	4	2	×	✓	×	✓	×	✓
10 Channel Mic/Line (1002ADC)	6	✓	4	2	✓	✓	×	✓	×	✓
8 Channel Mic/Line (1202B)	4	✓	4	2	×	×	✓	✓	×	×
8 Channel Mic/Line (1202BD)	4	✓	4	2	✓	×	✓	✓	×	×
8 Channel Mic/Line (1202BDC)	4	✓	4	2	✓	×	✓	✓	×	✓
12 Channel Mic/Line (1602B)	8	✓	4	2	×	×	✓	✓	×	×
12 Channel Mic/Line (1602BD)	8	✓	4	2	✓	×	✓	✓	×	×
14 Channel Mic/Line (1802B)	10	✓	4	2	×	×	✓	✓	×	×
14 Channel Mic/Line (1802BD)	10	✓	4	2	✓	×	✓	✓	×	×
14 Channel Mic/Line (1802BDG)	10	✓	4	2	✓	×	✓	✓	×	×
12 Channel Mic/Line (1602BDC)	8	✓	4	2	✓	×	✓	✓	×	2 x 300W (RMS )
14 Channel Mic/Line (1802BDC)	10	✓	4	2	✓	×	✓	✓	×	2 x 300W (RMS )
14 Channel Mic/Line (1802BDCG)	10	✓	4	2	✓	×	✓	✓	×	2 x 300W (RMS )

NOTE: 1. “✓” have, “×” not have.

2.The 1802BDCG shall be restarted after the protection of overcurrent,overpower,shortcircuit acts.

## 2. INTRODUCTION

Congratulations purchasing our company professional stereo mixer whose small size belies its incredible versatility and superlative audio performance and low noise. Over the old products.

We recommend that you experiment with this unit for recording session or live concert. In order to get a feel for it. It is a musical instrument. Learn to play it well.

Next to the specifications in the appendix. You will find this system Block Diagram. While studying the manual. All functions are numbered consistently throughout the manual.

### 2.1- MAIN FUNCTIONS:

#### (1)MIC IN

Channel 1-4 are mono with a choice of balanced mic or line inputs. Preamp designed low noise , High Dynamic Range and wide frequency response and 3 band equalizer and low cut filter.

#### (2)STEREO LINE IN

4 line inputs (line 5/6 7/8) are configured as 2 stereo input channels designed 3 band equalizer per channel. These are ideal for accepting outputs from MIDE CD and other electronic instruments.

#### (3)EFF RETURN

It can be used for stereo signal inputs and also used for extenal effects processor output signal return to this channel and automatically cut off internal effects signal.

#### (4)TAPE IN

A stereo tape input is provided. Which may also be routed to the main OUT or control room or headphone output.

#### (5)MAIN OUT

The L/R main output, connected to the power AMP. The insert socket is connect to the extenal equalizer.

Power Output: 2×50W/4Ω (SPK socket)

#### (6)TAPE OUT

The mixer output provided the program signal used for recording.

#### (7)EFF SEND

This socket, used for input signal of extenal eff processor and automatically cut off internal eff signal.

#### (8)MON OUT

This socket used for input signal of extenal monitor amplifier.

## (9) ROOM/PHONES

This L/R socket provided the program signal to the control room or monitor headphone.

## 2.2- EFFECT PROCESSOR

(a) The mixing console without "D" in the model: pure mixer. no effect and equalizer.

(b) The mixing console with "D" in the model: Built-in Digital sound Effect processor. (DSP)16 steps.

## 2.3- LEVEL DISPLAY

High accurate 2 x 12 segment bargraph LED level display.

## 2.4- POWER SUPPLY

Design a power shield box. Concurrently mixer bottom case. It can be obtain good electric-magnetic shield effect.

## 2.5-CONNECTIONS AND OPERATING:

(1)State-the-art 4580 ICs and high quality components ensure crystal-clear audio performance.

(2)For connection to main supply always ensure that your plug is wired correctly and fitted with the correctly rated fuse. AC Voltage selector-select between 115V/230V and 60Hz/50Hz.

(3) Connecting Mixer "MAIN OUT" to the power amp and the volume control set to min.

(4) Connecting power amp to the speaker.

(5) Connect your power amplifier to the main out. Make sure that the channels are set properly.

(6) Connect your microphone to the MIC BAL IN.

(7) Connect your tape recorder to the TAPE IN for TAPE signal input.

(8) Connect your tape recorder to the "TAPE OUT" used for program signal to the recording.

(9) Connect external effects to the "EFF SEND" .

(10) Connect external effects to the "EFF RETURN" .

(11) Connect headphone or control room signal to the "ROOM/PHONES" .

(12) Connect external equalizer to the "INSERT" socket.

(13) When the power switch is on , LED will light. Turn on the power AMP AC power switch, and set the volume control to the properly position.

## 5. TECHNICAL SPECIFICATIONS

### 5.1 INPUT SPECIFICATIONS

CH IN:

MIC: MONO bal (XLR)  
LINE: MONO bal (TRS Jack)

BAND WIDTH: 20Hz----20KHz  $\leq \pm 0.5\text{dB}$

10Hz----50KHz  $\leq \pm 3\text{dB}$

T.H.D & N: 0.05% (20Hz----20KHz)

GAIN TRIM: 40dB

EQUIVALENT INPUT NOISE: -124dB

EQ: HIGH: 10KHz  $\leq \pm 15\text{dB}$

MID: 2.7KHz  $\leq \pm 15\text{dB}$

LOW: 100Hz  $\leq \pm 15\text{dB}$

LOW CUT: 100Hz 12dB/oct

STEREO IN:

STEREO CH: bal(TRS Jack)

BAND WIDTH: 20Hz----20KHz  $\leq \pm 0.5\text{dB}$

10Hz----50KHz  $\leq \pm 3\text{dB}$

T.H.D & N: 0.05% (20Hz----20KHz)

EQ: HIGH: 10KHz  $\leq \pm 15\text{dB}$

MID: 2.7KHz  $\leq \pm 15\text{dB}$

LOW: 100Hz  $\leq \pm 15\text{dB}$

EFF RET IN: unbal (TRS Jack)

BAND WIDTH: 20Hz----20KHz  $\leq \pm 0.5\text{dB}$

10Hz----50KHz  $\leq \pm 3\text{dB}$

T.H.D & N: 0.05% (20Hz----20KHz)

TAPE IN: unbal (RCA.plug.in)

BAND W/DTH: 20Hz----20KHz  $\leq \pm 0.5\text{dB}$

T.H.D & N: 0.05% (20Hz----20KHz)

### 5.2 OUTPUT SPECIFICATIONS

MAIN OUT(L/R): unbal (TRS Jack)

MAX OUTPUT: +20dB

BAND WIDTH: 20Hz----20KHz  $\leq \pm 0.5\text{dB}$

10Hz----20KHz  $\leq \pm 3\text{dB}$

T.H.D & N: 0.05% (20Hz----20KHz)

CONTROL ROOM OUT: unbal (TRS Jack)

MAX OUTPUT: +20dB

BAND WIDTH: 20Hz----20KHz  $\leq \pm 0.5\text{dB}$

10Hz----50KHz  $\leq \pm 3\text{dB}$

MON OUT: unbal (TRS Jack)

MAX OUTPUT: +20dB

BAND WIDTH: 20Hz----20KHz  $\leq \pm 0.5\text{dB}$

10Hz----50KHz  $\leq \pm 3\text{dB}$

T.H.D & N: 0.05% (20Hz----20KHz)

TAPE OUT: unbal (RCA Plug-in)

STEREO POWER OUT:  $2 \times 50\text{W}/4\Omega$

FREQUENCY RESPONSE: 20Hz----20KHz,  $\pm 1\text{dB}$

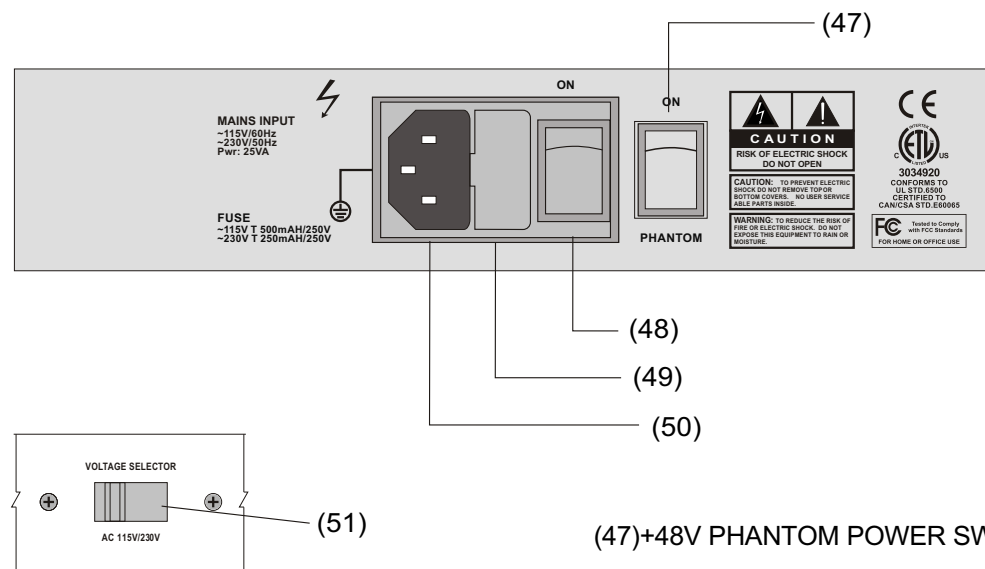
S/N:  $\geq 123\text{dB}$

LOAD IMPEDANCE: FULL=4  $\Omega$

POWER SUPPLY: Main voltages AC 115V/230V, 50Hz/60Hz

POWER CONSUMPTION: 25VA

## REAR PANEL FEATURES (NO POWER AMP)



(47)+48V PHANTOM POWER SWITCH

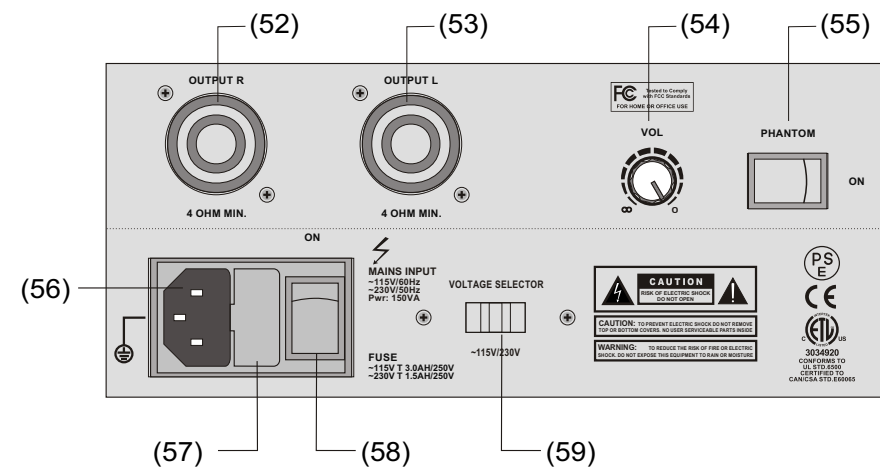
(48)AC POWER SWITCH

(49)AC FUSE

(50)AC POWER SOCKET

(51)AC 115V/230V SELECTOR

## REAR PANEL FEATURES (POWERED MIXER)



(52)AMP OUTPUT R

(53)AMP OUTPUT L

(54)OUTPUT POWER VOL CONTROL

(55)+48V PHANTOM POWER SWITCH

(56)AC POWER SOCKET

(57)AC FUSE

(58)AC POWER SWITCH

(59)AC 115V/230V SELECTOR

(14) Adjust the MIC GAIN channel fader and master fader to the properly position.

(15) If you use condenser MIC, please turn on the +48V phantom power switch on the rear panel.

(16) If you use the effect, set the “EFF” level and “RETURN EFF” level to the properly position and set the effect function to the properly position.

(17) Press the “LOW CUT” button, this helps to reduce rumble and fuzzy sound.

(18) If you use CD program signal, please adjust the “STEREO LINE” “GAIN” “VOL” to the properly position.

(19) If you use TAPE program signal, please adjust the “TAPE” level control “MAIN OUT” to the properly position.

(20) The phones signal is adjusted via the “ROOM OUT” volume to control send the level to the headphones.

## 2.6-SAFETY INSTRUCTIONS

(1) Make sure that the power switch is set to off. Before connecting other devices to mixer, all units have to be switched off the “Master Control” set to min.

(2) Make sure that the available voltage is not higher than stated on the voltage selector before connecting to power.

(3) To replace fuse, use only same type fuse. To AC 230V T500mAH/250V fuse.  
To AC 115V T500mAH/250V fuse.

(4) To replace fuse, use only same type fuse. To AC 230V T1.5AH/250V fuse.  
To AC 115V T3AH/250V fuse.(Powered Mixer)

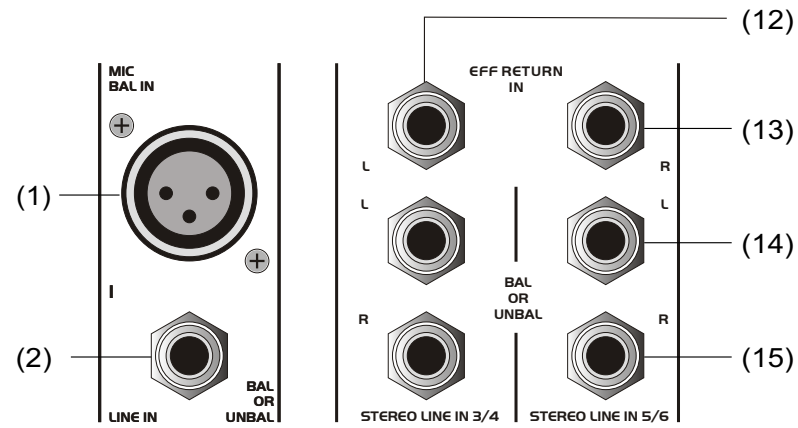
(5) This apparatus must be earthed.

(6) To prevent fire or shock hazard. Do not expose this apparatus to rain or moisture.

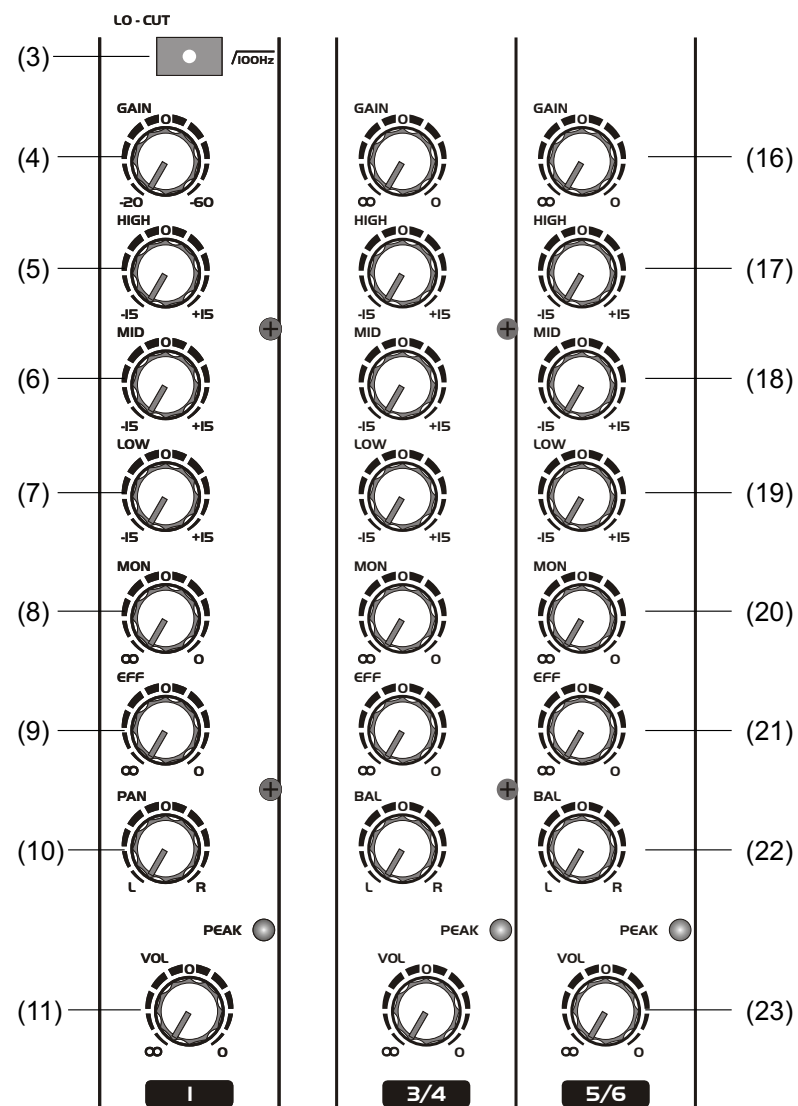
## 3. WEIGHT AND SIZE OF PRODUCT

TYPE	FUNCTION	SIZE(mm)	WEIGHT(kg)
6 CHANNEL MIC/LINE (602A/AD)		215 x 265 x 100	3.7
8 CHANNEL MIC/LINE (802A/AD)		270 x 265 x 100	4.8
10 CHANNEL MIC/LINE (1002A/AD)		300 x 265 x 100	5.9
6 CHANNEL MIC/LINE (602AC/ADC)		215 x 265 x 140	5
8 CHANNEL MIC/LINE (802AC/ADC)		270 x 265 x 140	5.5
10 CHANNEL MIC/LINE (1002AC/ADC)		300 x 265 x 140	6
8 CHANNEL MIC/LINE (1202B/BD)		380 x 330 x 150	3.5
12 CHANNEL MIC/LINE (1602B/BD)		380 x 345 x 90	10
14 CHANNEL MIC/LINE (1802B/BD)		435 x 345 x 90	11
14 CHANNEL MIC/LINE (1802BDG)		439 x 345 x 90	11
8 CHANNEL MIC/LINE (1202BDC)		275 x 345 x 130	9.5
12 CHANNEL MIC/LINE (1602BDC)		380 x 345 x 130	14
14 CHANNEL MIC/LINE (1802BDC/BDCG)		439 x 345 x 130	15

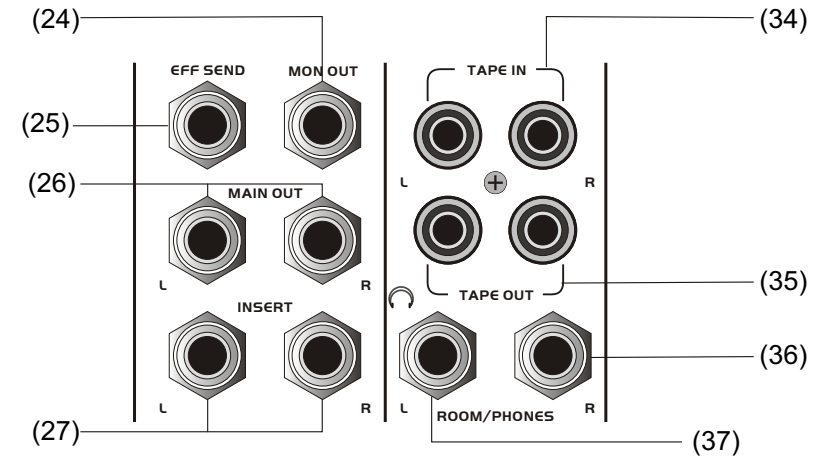
#### 4. FRONT AND REAR PANEL FEATURES



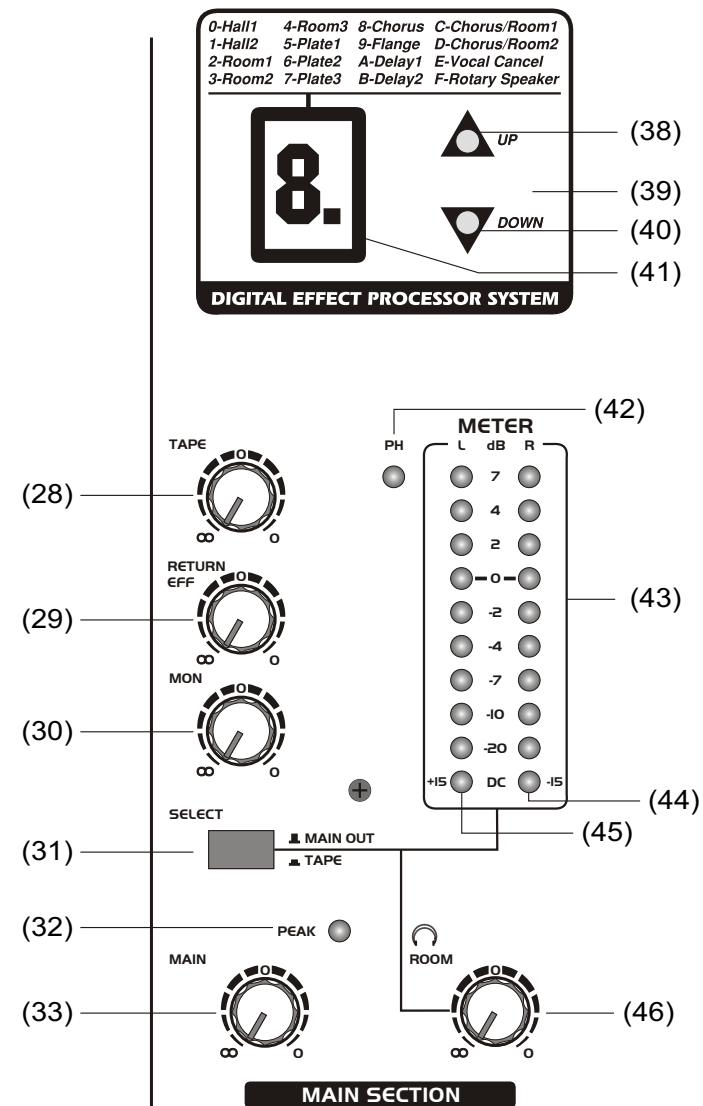
- (1) MIC IN (XLR BAL)
- (2) LINE IN (TRS 1/4" JACK)
- (3) LOW CUT
- (4) GAIN
- (5) EQ HIGH
- (6) EQ MID
- (7) EQ LOW
- (8) MON VOL
- (9) EFF VOL
- (10) PAN
- (11) CH VOL
- (12) EFF RET L IN/EFF RET STEREO IN
- (13) EFF RET IN(R)
- (14) STEREO LINE IN(L)
- (15) STEREO LINE IN(R)



- (16) GAIN
- (17) EQ HIGH
- (18) EQ MID
- (19) EQ LOW
- (20) MON VOL
- (21) EFF VOL
- (22) BAL
- (23) CH VOL



- (24) MON OUT
- (25) EFF SEND
- (26) MAIN OUT
- (27) L/R INSERT
- (28) TAPE VOL
- (29) EFF RET VOL
- (30) MON VOL
- (31) MAIN/TAPE BUTTON
- (32) LED PEAK
- (33) MAIN VOL
- (34) TAPE IN (RCA PLUG - IN)
- (35) TAPE OUT (RCA PLUG - IN)
- (36) ROOM/PHONES (TRS 1/4" JACK)
- (37) ROOM/PHONES (TRS 1/4" JACK)



- (38) PROGRAM UP
- (39) DIGITAL EFFECT
- (40) PROGRAM DOWN
- (41) PROGRAM DISPLAY
- (42)+48V PHANTOM POWER
- (43) 2 x 9 SEGMENT LED
- (44) DC-15V LED
- (45) DC+15V LED
- (46) ROOM VOL